

	Hits	Search Text	DBs
1	2	pantothenate near10 bacillus	USPAT; US-PGPUB; EPO; JPO; DERWENT
2	6	pantothenate and pane	USPAT; US-PGPUB; EPO; JPO; DERWENT

	L #	Hits	Search Text	DBs
1	L1	9	(2-dehydropantoate adj 2-reductase) or (2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (2-ketopantoic adj acid adj reductase) or (ketopantoic adj acid adj reductase)	USPAT; US-PGP UB; EPO; JPO; DERWEN T
2	L2	5	l1 and (bacillus or subtilis)	USPAT; US-PGP UB; EPO; JPO; DERWEN T
3	L3	27425	yocum.in. or patterson.in. or hermann.in. or pero.in.	USPAT; US-PGP UB; EPO; JPO; DERWEN T
4	L4	7	l3 and ketopantoate	USPAT; US-PGP UB; EPO; JPO; DERWEN T

	L #	Hits	Search Text	DBs
5	L5	20	13 and pantothenate	USPAT; US-PGP UB; EPO; JPO; DERWEN T

(FILE 'HOME' ENTERED AT 13:53:06 ON 03 MAR 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,  
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,  
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 13:53:19 ON  
03 MAR 2003

SEA (2-DEHYDROPANTOATE (W) 2-REDUCTASE) OR ((2-OXOPANTOATE OR 2

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1 FILE BIOBUSINESS  
17 FILE BIOSIS  
8 FILE BIOTECHABS  
8 FILE BIOTECHDS  
10 FILE BIOTECHNO  
47 FILE CAPLUS  
1 FILE CEABA-VTB  
2 FILE DGENE  
10 FILE EMBASE  
7 FILE ESBIODBASE  
2 FILE FROSTI  
1 FILE FSTA  
57 FILE GENBANK  
4 FILE IFIPAT  
5 FILE JICST-EPLUS  
9 FILE LIFESCI  
10 FILE MEDLINE  
4 FILE PASCAL  
13 FILE SCISEARCH  
10 FILE TOXCENTER  
6 FILE USPATFULL  
7 FILE WPIDS  
7 FILE WPINDEX

L1 QUE (2-DEHYDROPANTOATE (W) 2-REDUCTASE) OR ((2-OXOPANTOATE OR 2

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FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT  
14:01:11 ON 03 MAR 2003

L2 91 S (2-DEHYDROPANTOATE (W) 2-REDUCTASE) OR ((2-OXOPANTOATE OR 2-K  
L3 14 S L2 AND (BACILLUS OR SUBTILIS)  
L4 8 DUP REM L3 (6 DUPLICATES REMOVED)

=>



PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Bo
Search PubMed	for #2 AND subtilis					Preview	Go	
Clear								
Limits		Preview/Index		History		Clipboard		Details

- Search History will be lost after one hour of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.

Entrez PubMed

Search	Most Recent Queries	Time	Result
#6	Search #2 AND subtilis	13:50:51	<u>4</u>
#4	Search #2 AND #3	13:49:48	<u>9</u>
#3	Search bacillus	13:49:28	<u>40238</u>
#2	Related Articles for PubMed (Select 4603075)	13:49:14	<u>452</u>
#1	Search king and wilken and ketopantoic	13:49:04	<u>2</u>

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## IUBMB Enzyme Nomenclature

## EC 1.1.1.169

← **Common name:** 2-dehydropantoate 2-reductase

**Reaction:** (R)-pantoate + NADP = 2-dehydropantoate + NADPH<sub>2</sub>

**Glossary:**

pantoate = 2,4-dihydroxy-3,3-dimethylbutanoate

← **Other name(s):** 2-oxopantoate reductase; 2-ketopantoate reductase; 2-ketopantoic acid reductase; ketopantoate reductase; ketopantoic acid reductase

**Systematic name:** (R)-pantoate:NADP 2-oxidoreductase

**Links to other databases:** BRENDA, EXPASY, KEGG, WIT, CAS registry number: 37211-74-8

**References:**

1. King, H.L., Jr. and Wilken, D.R. Ketopantoyl lactone and ketopantoic acid reductases. Characterization of the reactions and purification of two forms of ketopantoyl lactone reductase. *J. Biol. Chem.* 247 (1972) 4689-4695.

[EC 1.1.1.169 created 1976]

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